

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/07/02

Date Received: 03/01/02

Project: Metro K.C. Comp. PO# M67592

Date Extracted: 03/05/02

Date Analyzed: 03/05/02

**RESULTS FROM THE ANALYSIS OF WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M62592 203005-01	0.44	0.40	0.47	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
FROM TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 203005-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.44	0.43	2	0-20
Copper	mg/L (ppm)	0.40	0.40	0	0-20
Nickel	mg/L (ppm)	0.47	0.46	2	0-20
Zinc	mg/L (ppm)	<0.05	0.05	nm	0-20

Laboratory Code: 203005-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.44	106	80-120
Copper	mg/L (ppm)	2	0.40	103	80-120
Nickel	mg/L (ppm)	4	0.47	102	80-120
Zinc	mg/L (ppm)	2	<0.05	108	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	109	108	80-120	1
Copper	mg/L (ppm)	2	106	106	80-120	0
Nickel	mg/L (ppm)	4	106	106	80-120	0
Zinc	mg/L (ppm)	2	106	107	80-120	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

March 7, 2002

DUPLICATE COPY

INVOICE # 02ACU0307-2

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro K.C. Comp. PO# M67592 - Results of testing requested by
Gerry Thompson for material submitted on March 1, 2002.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due **\$ 80.00**

FEDERAL TAX ID # (b) (6)

203005

ME 3/1/02 AJS

SAMPLE CHAIN OF CUSTODY

Send Report To

Company Alaska Copper worksAddress 628 S. Hamilton StCity, State, ZIP Seattle wa 98134Phone # 206-382-8529 Fax # 206-382-4802SAMPLERS (signature) [Signature]

PROJECT NAME/NO.

Metro KC, Camp.

PO #

M67552

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH 2 day

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes		
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS							
m67592	01	3/1/02	10:15	H2O	1							ccygn						

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Gerard A. Thompson</u>	<u>Acw</u>	<u>3/1/02</u>	<u>11:11 am</u>
Received by: <u>Charlene Morrow</u>	<u>Charlene Morrow</u>	<u>FABI</u>	<u>3-1-02</u>	<u>11:11</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

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March 7, 2002

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

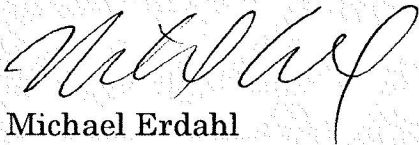
Dear Mr. Thompson:

Included are the results from the testing of material submitted on March 1, 2002 from your Metro K.C. Comp. PO# M67592 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0307R.DOC